

Peter Rabbit  
part 1

Jarrell, Leslie

Peter Rabbit

**From:** Jarrell, Leslie  
**Sent:** Wednesday, June 14, 2017 8:34 AM  
**To:** [REDACTED]  
**Cc:** Graff, Jaimie; [REDACTED]  
**Subject:** Fw: IDEXX BioResearch Case 6238-2017  
**Attachments:** IDEXX\_Case\_6238-2017.pdf

Hi [REDACTED]  
Here is the histopath from Rabbits 25 and 30. I'm catching up on histo. Next we are sending in histo rabbit 23 and 98.

Rabbit 25, Peter Rabbit, had iron accumulation in his liver. He was euthanized for chronic pododermatitis.

Rabbit 30, Baby Girl, had uterine cancer.

Thanks,  
Leslie

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**From:** IDEXXBioResearch <idexxbioresearch@idexx.com>  
**Sent:** Monday, March 6, 2017 2:40 PM  
**To:** [REDACTED] Jarrell, Leslie  
**Subject:** IDEXX BioResearch Case 6238-2017

Results for case 6238-2017 are now available on the [IDEXX BioResearch](#) web site. Please reply if you have questions or wish to discuss this case.

Attachments	
File Name	Description
IDEXX_Case_6238-2017.pdf	IDEXX Case 6238-2017 Report

Jarrell, Leslie

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Peter

From: Jarrell, Leslie  
Sent: Wednesday, March 08, 2017 2:49 PM  
To: [REDACTED] Graff, Jaimie  
Cc: [REDACTED]  
Subject: [REDACTED] rabbit info

Peter Rabbit, #25 (chronic pododermatitis) and Baby Girl rabbit, #30, (chronic weight loss) were euthanized on 11/16/16.

Thumper, AHR#16132, Rabbit #24, had hair loss but has resolved.

Thanks,  
Leslie

Peter Rabbin



**FINAL REPORT OF LABORATORY EXAMINATION**

4011 Discovery Drive, Columbia, MO 65201

1-800-669-0825 1-573-499-5700

idexxbioresearch@idexx.com

www.idexxbioresearch.com

**IDEXX BioResearch Case # 6238-2017**

**Received: 2/17/2017**

**Completed: 3/6/2017**

**Submitted By**

Leslie Jarrell  
Priority One Services (EPA)  
109 TW Alexander Dr., MDB105-10  
Research Triangle Park, NC 27709

Phone: 919-541-5155  
Fax: 919-541-2142  
Email: jarrell.leslie@epa.gov

**Specimen Description**

Species: rabbit  
Number of Specimens/Animals: 2  
Study: [REDACTED]

Client ID	Strain /Breed
Rabbit 25	NZW
Rabbit 30	NZW

**Services/Tests Performed:** Histopathology Services

**Histopathologic evaluation for:** kidney, liver, mammary gland, ovary, skeletal muscle, spleen, uterus

**General Comments:** Rabbit 25 = spleen, liver, kidney, (+ 1 tissue I can't remember). Geriatric rabbit with chronic pododermatitis. Necropsy- pododermatitis lesions.

Rabbit 30 = skin ventral abdomen, (skin) multiple abscesses, uterine mass, ovarian mass. Geriatric rabbit with chronic but gradual weight loss. Necropsy- many slightly raised, subcutaneous and dermal flat abscesses with yellow thick purulent material on ventral abdomen. Suspect mastitis? Uterine mass firm, ovarian mass possible.

**Summary:** Animal 25 had hepatic hemosiderosis.

Animal 30 had two uterine masses including a uterine leiomyoma and a uterine adenocarcinoma with myometrial hyperplasia. No lesion was noted in the single ovary submitted. There was mammary gland dysplasia with cysts. This is a common finding in aging NZW rabbits with concurrent pituitary gland prolactin secreting adenomas (no pituitary gland submitted).

## HISTOPATHOLOGY

### Animal: Rabbit 25

kidney	There is mild multifocal mineralization.
liver	There is multifocal brown pigment accumulation in hepatocellular cytoplasm. Pigment stains positive for hemosiderin on iron stained sections and negative for copper. Focally there is capsular fibrosis.
spleen	no significant lesions

### Animal: Rabbit 30

mammary gland	Greatly expanding the subcutaneous tissue are large cystic mammary acini often containing proteinaceous product. Glands also form smaller aggregates with multilayered acini with pleomorphism (dysplasia).
ovary	no significant lesions
skeletal muscle	no significant lesions
uterus	Two uterine masses were evaluated. In the first, there was moderate expansion of the myometrium and filling with closely packed neoplastic cells. Cells form interlacing bundles with abundant fibrovascular stroma. Cells are elongate and have oval to elongate finely stippled centrally located nuclei with pale abundant cytoplasm. Mitoses are not observed. Mass is consistent with uterine leiomyoma. In the second mass, there is expansion of the myometrium and infiltration with neoplastic cells. Cells form tubuloacinar structures (some multilayered) admixed amongst abundant smooth muscle and lesser collagenous stroma. Cells are polygonal with round to oval finely stippled nuclei and variably prominent nucleoli. Mitoses are 1-3 per 400x field. Mass is consistent with uterine adenocarcinoma with myometrial hyperplasia.

Jarrell, Leslie

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From: Jarrell, Leslie  
Sent: Thursday, December 08, 2016 11:59 AM  
To: [REDACTED]  
Cc: Graff, Jaimie; [REDACTED]  
Subject: Rabbit necropsies #25 and #30

Hi [REDACTED]

Here are the necropsy reports for Peter Rabbit and Baby Girl. They were really good rabbits.

#25 Peter

S/O: Geriatric rabbit with pododermatitis. A/P: Elected euthanasia after recurrence of pododermatitis.

Necropsy; Scabs on both hind feet at pododermatitis lesions. When scabs were removed, no skin remained on those areas. Abdomen- normal ingesta in stomach, kidneys, spleen, liver within normal limits. No obvious heart or lung issues. Few areas of skin inflammation from contact irritation from urine at perineum and caudal ventral abdomen. Assessment- pododermatitis lesions, recurrent  
Tissues taken for histopath.

#30 Baby Girl

S/O: Geriatric rabbit with continued, very slow weight loss. A/P: Elected euthanasia after no weight gain with good appetite.

Necropsy; Many slightly raised, subcutaneous and dermal, flat abscesses with yellow thick purulent material, along ventral abdomen. These were not palpable due to heavy fur coat. Lesions similar, but not entirely consistent with mastitis lesions seen in other rabbits. Uterine mass, firm, around 2 cm diameter, in one uterine horn, and ovarian mass suspected. No obvious lung abnormalities.  
Assessment; Open, mastitis, uterine cancer  
Tissues taken for histopath.

Thanks very much for your time and care of these rabbits.

Best,  
Leslie



Jarrell, Leslie

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**From:** Jarrell, Leslie  
**Sent:** Monday, November 21, 2016 12:51 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie  
**Subject:** FW: Rabbit updates- please respond on Mon

FYI. We are set for 2 pm tomorrow.

Will need the rabbit induction box, a few towels, set up for 4<sup>th</sup> procedures room (the corner surgery room)

Thanks,  
Leslie

**From:** [REDACTED]  
**Sent:** Monday, November 21, 2016 12:27 PM  
**To:** Jarrell, Leslie <Jarrell.Leslie@epa.gov>  
**Subject:** RE: Rabbit updates- please respond on Mon

thanks

**From:** Jarrell, Leslie  
**Sent:** Monday, November 21, 2016 12:21 PM  
**To:** [REDACTED]  
**Subject:** RE: Rabbit updates- please respond on Mon

I'm sorry. I can't see a way around it. Please let me know when you and [REDACTED] have said goodbye's? Then [REDACTED] and I will plan for this afternoon, or tomorrow, to euthanize both.

Very sorry.

Leslie

**From:** [REDACTED]  
**Sent:** Monday, November 21, 2016 12:19 PM  
**To:** Jarrell, Leslie <Jarrell.Leslie@epa.gov>  
**Subject:** RE: Rabbit updates- please respond on Mon

This is not a good Monday.  
Do what you have to do.

[REDACTED]

**From:** Jarrell, Leslie  
**Sent:** Friday, November 18, 2016 4:21 PM  
**Cc:** [REDACTED] Graff, Jaimie  
<Graff.Jaimie@epa.gov>  
[REDACTED]  
**Subject:** Rabbit updates- please respond on Mon  
**Importance:** High

Hi [REDACTED]

Thumper is doing well! However, Baby Girl and Peter have had continued issues.

Baby Girl is eating well, and she is active, bright, alert and hydrated. She has normal feces, and is very personable. However she has had continual slow weight loss this year. From last week's exam to this week's, her body condition score has gone down. I can palpate what I suspect is an enlarged uterus. Due to her fairly normal exams, and her normal appetite despite her continuing weight loss, I'm very suspicious of neoplasia, likely repro.

Similarly, Peter rabbit is eating well, and he is active, bright, alert and hydrated. He is hopping around and doesn't appear to be painful. However he still has pododermatitis on both back feet, and he is not improving.

My concern for both of these rabbits is that although they appear to be eating well and bright now, that they are on a downhill trend. I think that they will continue to deteriorate, and will start to feel bad. Currently I think they have mainly good days. Over the years, I have found that it is better to plan for euthanasia to be on animal's "good day", then to wait until the animal is feeling very bad and then your hand is forced to euthanize. Because at that point, you could have relieved suffering earlier.

So, I am recommending that euthanasia be considered for both rabbits, next week. I'm very sorry to have to recommend that. They have been excellent, sociable, rabbits, and I'm sure they have helped science tremendously over their lives.

Please let me know your thoughts on Mon.

Thanks,  
Leslie



Jarrell, Leslie

Peter

**From:** Jarrell, Leslie  
**Sent:** Monday, November 21, 2016 12:26 PM  
**To:** [REDACTED]  
**Subject:** RE: Rabbit updates- please respond on Mon

Yes that's fine. We could plan for 2 pm if that is OK.  
Thanks.

**From:** [REDACTED]  
**Sent:** Monday, November 21, 2016 12:23 PM  
**To:** Jarrell, Leslie <Jarrell.Leslie@epa.gov>  
**Subject:** RE: Rabbit updates- please respond on Mon

[REDACTED] not back yet.  
Can you do it tomorrow afternoon ?  
[REDACTED]

**From:** Jarrell, Leslie  
**Sent:** Monday, November 21, 2016 12:21 PM  
**To:** [REDACTED]  
**Subject:** RE: Rabbit updates- please respond on Mon

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Leslie

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<Graff.Jaimie@epa.gov>  
[REDACTED]  
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Jarrell, Leslie

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**Subject:** RE: Rabbit updates- please respond on Mon

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**Sent:** Friday, November 18, 2016 4:21 PM

[REDACTED] >  
[REDACTED] Graff, Jaimie  
<Graff.Jaimie@epa.gov>

**Subject:** Rabbit updates- please respond on Mon  
**Importance:** High

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Please let me know your thoughts on Mon.

Thanks,

Leslie

Jarrell, Leslie

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**From:** Jarrell, Leslie  
**Sent:** Friday, October 28, 2016 12:06 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie; [REDACTED]  
**Subject:** RE: AHR# 16142- Update

Hi [REDACTED]  
While Peter's right hind foot pododermatitis lesion is improved, it is still present. The alopecia area is less inflamed. The heel has a pinpoint scab about 1 mm diameter. Without radiographs, we don't know the extent of the lesion. However Peter is hopping very well and is not favoring the foot. Unfortunately he has a mild pododermatitis lesion (1 – 1.5 mm diameter scab) on his left hind foot, at the point of the heel, as well. He is eating well and holding weight. We have stopped topical silvadene on the foot. I don't recommend to start him on oral antibiotics because at this point there is no swelling at his foot and no problems hopping or reluctance to hop.

The new Oxbow Orchard grass hay arrived, and all the rabbits have been started on it. Peter was given 2 woven timothy mats for his cage, these are 100% edible. They also give him a sort of "resting board", if he chooses to use them. He is not scared of them, but also he isn't spending a lot of time on them.

My recommendation is to continue to monitor his foot lesions, with [REDACTED] twice a week. I think this will be a chronic problem. When he starts having issues ambulating, he will require oral antibiotics and oral analgesia. At this point, we would need to consider euthanasia.

[REDACTED] will be on call this weekend, and [REDACTED] on site Mon- Thurs.

Thanks,  
Leslie

**From:** Jarrell, Leslie  
**Sent:** Tuesday, October 11, 2016 4:40 PM

[REDACTED]  
[REDACTED] Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]  
[REDACTED]

**Subject:** RE: AHR# 16142- update Tues

Hi [REDACTED]  
So far so good. His foot lesion is improved, and smaller. He is hopping well and eating well. We will continue the silvadene topical ointment, and are thinking about bedding him with lots of hay. This could be good (gives him more padding) or not so good (may allow his foot to be wet). I think it is worth a try. If he eats the hay that is not a problem.

Also I'm going to look into getting him some higher quality hay to eat, the Oxbow products have softer, and more variety of, grass hays.

Thanks,  
Leslie



From: Jarrell, Leslie

Sent: Thursday, October 06, 2016 3:30 PM

Cc: [REDACTED]

Graff, Jaimie <Graff.Jaimie@epa.gov>

Subject: RE: AHR# 16142- treatment

Hi [REDACTED]

Thanks for talking with me and [REDACTED] today. As we discussed, Peter rabbit has had some grooming issues, and so we have been clipping his fur to help him. Today we tried to address a mat near his tail, but that was not going to be an option.

We anesthetized him with isoflurane and oxygen and clipped the mats in sensitive areas. We found a small mat on the bottom of his right hind foot. Underneath it, there was a small area of pododermatitis. One area only had fur missing, and mild skin inflammation. A small 6 mm diameter area had a scab, this was close to the heel. We clipped the mat in the area, and applied silvadene to both spots.

Pododermatitis can be serious in rabbits. I think this is an early lesion, and that with treatment, hopefully it will heal up. However this may be a continuing issue with this rabbit. He is hopping well and getting around well, so he has no issues with ambulation. He does not appear painful. He's eating well.

We talked about applying silvadene ointment (silver sulfadiazine) to the lesion and monitoring for healing process. If he doesn't improve by Tuesday, we can discuss further treatment and options.

Thanks,  
Leslie

From: [REDACTED]

Sent: Thursday, October 06, 2016 1:16 PM

Cc: Jarrell, Leslie <Jarrell.Leslie@epa.gov>; [REDACTED]

Subject: AHR# 16142

Number: 16141

Date Found: 10/06/16

Time Found: 10:30am

Found by:

Room: A486B

Investigator: [REDACTED]

LAPR#: 19-03-002

Species/Strain: Rabbit/NZW

Sex: male

DOB: 02/25/08

Date Received: 09/06/09

Animal ID/Cage: 25

Pododermatitis- hind foot




Rev 10/26/16

Peter: Rev

(S10) BARTH RH Foot lesions smaller diameter, sl inflamed,  
1mm diam scab pt of heel. No ambulation issues.  
Feet are not swollen,  
hops well + active.

10/26/16


Rev  
Peter  
Rabbits

 inflamed, smaller than before  
1mm scab

(RH)

Note: was on silvadene  
topical but difficult to  
apply. Discontinue.

(LH)

 alopecia but not inflamed  
1mm scab

(A) Mild pododermatitis L + R Hind feet

(P) Timothy hay mats as "resting boards" for  
softness + are edible.

Radiographs ideal but not available.

Start 2 mats in cage.

Continue hay → switch to orchardgrass Oxbow  
hay. Plan ares/groom CBC/chem in early Nov.  
Monitor. 22

Jarrell, Leslie

Peter

**From:** Jarrell, Leslie  
**Sent:** Tuesday, October 25, 2016 10:53 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: Timothy Hay Mats

Thanks [REDACTED] For Peter rabbit, if he can have one on the floor. We will see how he does.

It would be great if all the rabbits had mats, but the rest of them don't need one on the floor. It can be hung up on the bar or something so they could grab it. Like extra enrichment. Could remove keys or other hanging stuff so they get more variety. Also Peter could have one hanging if there is room.

We should be up to all of the rabbits getting 3 handfuls/ day of hay daily, if that could be confirmed. Also the Oxbow hay looks really good. Much softer and less stems/ heads. I'd recommend to buy the timothy from Oxbow as well.

Thanks,  
Leslie

**From:** [REDACTED]  
**Sent:** Tuesday, October 25, 2016 10:50 AM  
**To:** Jarrell, Leslie <Jarrell.Leslie@epa.gov>  
**Cc:** [REDACTED]  
**Subject:** Timothy Hay Mats

Hi Leslie,

The Timothy hay mats arrived today for the rabbits. Would you like for ACS to put them in all of the cages or just for Peter?

Thanks,

[REDACTED]

Pete

Jarrell, Leslie

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**From:** Jarrell, Leslie  
**Sent:** Wednesday, October 12, 2016 2:11 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** FW: AHR# 16142- update Tues

Hi [REDACTED]

If it would be possible to take the layer of hay out of Peter's cage, that would be great. He can have a large amount of hay stacked up in one corner if that works for you.

Thanks,  
Leslie

**From:** Jarrell, Leslie  
**Sent:** Wednesday, October 12, 2016 2:10 PM  
**To:** [REDACTED]  
**Subject:** RE: AHR# 16142- update Tues

I disagree, but we can take it out.

**From:** [REDACTED]  
**Sent:** Wednesday, October 12, 2016 11:11 AM  
**To:** Jarrell, Leslie <Jarrell.Leslie@epa.gov>  
**Subject:** RE: AHR# 16142- update Tues

that hay will have to be changed out regularly,  
his urine will create an even worse problem on  
his foot.

**From:** Jarrell, Leslie  
**Sent:** Tuesday, October 11, 2016 4:40 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED]

[REDACTED] Graff, Jaimie <Graff.Jaimie@epa.gov> [REDACTED]

[REDACTED]  
[REDACTED] update Tues

Hi [REDACTED]

So far so good. His foot lesion is improved, and smaller. He is hopping well and eating well. We will continue the silvadene topical ointment, and are thinking about bedding him with lots of hay. This could be good (gives him more padding) or not so good (may allow his foot to be wet). I think it is worth a try. If he eats the hay that is not a problem.

Also I'm going to look into getting him some higher quality hay to eat, the Oxbow products have softer, and more variety of, grass hays.

Thanks,  
Leslie

**From:** Jarrell, Leslie  
**Sent:** Thursday, October 06, 2016 3:30 PM

Graff, Jaimie <Graff.Jaimie@epa.gov>;

**Subject:** RE: AHR# 16142- treatment

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Pododermatitis can be serious in rabbits. I think this is an early lesion, and that with treatment, hopefully it will heal up. However this may be a continuing issue with this rabbit. He is hopping well and getting around well, so he has no issues with ambulation. He does not appear painful. He's eating well.

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Thanks,  
Leslie

**From:** [REDACTED]  
**Sent:** Thursday, October 06, 2016 1:16 PM

**Cc:** Jarrell, Leslie <Jarrell.Leslie@epa.gov>; [REDACTED]

**Subject:** AHR# 16142

Number: 16141  
Date Found: 10/06/16  
Time Found: 10:30am  
Found by:  
Room: A486B  
Investigator: [REDACTED]  
LAPR#: 19-03-002  
Species/Strain: Rabbit/NZW  
Sex: male  
DOB: 02/25/08  
Date Received: 09/06/09  
Animal ID/Cage: 25  
Pododermatitis- hind foot



Jarrell, Leslie

Peter

**From:** Jarrell, Leslie  
**Sent:** Tuesday, October 11, 2016 4:40 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie; [REDACTED]  
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[REDACTED]  
C [REDACTED] Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]  
[REDACTED]

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[REDACTED]

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Sex: male  
DOB: 02/25/08  
Date Received: 09/06/09  
Animal ID/Cage: 25  
Pododermatitis- hind foot

[REDACTED]  
L.L. Brooks Enterprises  
Contractor for U.S.E.P.A  
[REDACTED]



## SMALL MAMM/

## PATIENT EXAMINATION REPORT CARD

## 1. Coat/Fur &amp; Skin

Appears normal Dull/Dry  
Scaly Scabs  
Infection Shedding  
Matted Tumors  
Itchy Hair Loss

## 2. Eyes

Appears Normal Discharge  
Inflamed Infection  
Eyelid Deformities Ulcer: L R  
Cataract: L R

## 3. Ears

Appears Normal Inflamed: L R  
Dirty Mites  
Tumor: L R Infected  
Excessive Hair Painful

## 4. Nose

Appears Normal Nasal Discharge  
Other

## 5. Mouth, Teeth, Gums

Appears Normal Broken Teeth  
Tartar Buildup Tumors  
Overgrown Incisors Inflamed Lips  
Overgrown Molars Periodontal Disease  
Overgrown roots Abscessed

## 6. Legs &amp; Paws

Appears Normal Joint Problems  
Nail Problems Lameness  
Other: LH pododermatitis

## 7. Heart

Appears Normal  
Slow Fast  
Murmur Irregular

## 8. Lungs

Appears Normal Coughing  
Abnormal Sound Congestion  
Rapid Respiration Dyspnea

## 9. Abdomen

Appears Normal Abnormal Mass  
Enlarged Organs Tense/Painful  
Fluid Swollen

## 10. Gastrointestinal System

Appears Normal Abnormal Feces  
Stasis/Impaction Parasites  
Anorexia

## 11. Urrogenital System

Appears Normal Abnormal Urination  
Mammary Tumors Genital Discharge  
Abnormal Testicles

## 12. Weight

Normal Obese  
Heavy By: Thin By:

## 1. REEDED:

Anne. Blood Work  
Urinalysis  
Fecal Examination  
Spay / Neuter  
Microchip  
Skin Scraping  
Fungal Culture  
Ear Cytology

## RECOMMENDATIONS:

Cage Change:  
Bedding Change: Change Type  
Diet Change: Please see handout

Tech Initials: \_\_\_\_\_

Temp: \_\_\_\_\_

Weight: \_\_\_\_\_

## Appetite:

normal / increased / decreased

## Water Intake:

normal / increased / decreased

## Coughing:

No / Yes, Frequency: \_\_\_\_\_

## Sneezing:

No / Yes, Frequency: \_\_\_\_\_

## Urination:

normal / increased / decreased

## Attitude:

normal / abnormal

## Feces:

normal / abnormal

Presented For: Mats. Unable to clip while awake due to location. PI old anesthesia.

Historical Issues/ Medications: Mats

Current Diet: Hay, pellets, veg

## Examination:

BARH. Brief isoflurane anesthesia to clip mats, found mild urine stains + skin inflammation @ hind foot + hock. Found mat at @ hind foot per fur → under was a small area of inflamed skin + ~6mm diameter scab 1/2 broken skin at base of foot

inflamed  
scab

A. cleaned, Applied iodine

P. shw PET Gary + Juan re plan → treat typically as patient permits. Rev and plan.

If worsens → euth or adoption. Discussed.

Ref fm- BARH. 10/7/16. AM- BARH, improved. Grooming

Doctor: Doctor's name, DVM Need: PM. BARH In: \_\_\_\_\_ Days

## DIAGNOSIS OR PROBLEMS

## PROGNOSIS

## DIFFERENTIAL DIAGNOSIS

## PLAN

10/18/16 BARH. " 22  
10/21/16 BARH. Much improved. Ref noted by  
10/26/16.

10/11/16 BARH.  
10/13/16 BARH.  
10/15/16 BARH.

Less inflamed; improved  
About same 22  
" " 22

22

Today's Date: 10/06/16

Chart #: 25

Species/ Breed: NZW

DOB: 2/25/08

Pet's Name: Peter

Last Name: \_\_\_\_\_

Color: white

Sex: M